

Notice of Allowability

Application No.

10/692,877

Examiner

John P Fitzgerald

Applicant(s)

IRANI, CYRUS A.

Art Unit

2856

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☐ This communication is responsive to _____.
2. ☒ The allowed claim(s) is/are 1-30 and 45-50.
3. ☒ The drawings filed on 24 October 2004 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 10/24/04
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

DETAILED ACTION

Election/Restrictions

1. Restriction to one of the following inventions is required under 35 U.S.C. § 121:
 - I. Claims 1-30 and 45-50, drawn to an apparatus for measuring viscosity, classified in class 73, subclass 54.04.
 - II. Claims 31-44, drawn to an apparatus for minimizing mass transfer between two fluids, classified in class 137, subclass 154.

The inventions are distinct, each from the other because of the following reasons:

2. Inventions I and II are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the apparatus for minimizing mass transfer and its particulars is not required in the combination of an apparatus for measuring the viscosity of a fluid. The subcombination has separate utility such as any type of device in which two distinct fluids are needed to be kept separately, yet interact via pressure.
3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.
4. During a telephone conversation with Mr. L. Youst on 18 January 21, 2005 a provisional election was made without traverse to prosecute the invention of Group 1, claims 1-30 and 45-

Art Unit: 2856

50. Affirmation of this election must be made by applicant in replying to this Office action.

Claims 31-44 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

EXAMINER'S AMENDMENT

5. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Lawrence Youst on 24 January 2005, an agreement was made to cancel claims regarding the non-elected invention of Group II. The application has been amended as follows:

- Please cancel claims 31-44.

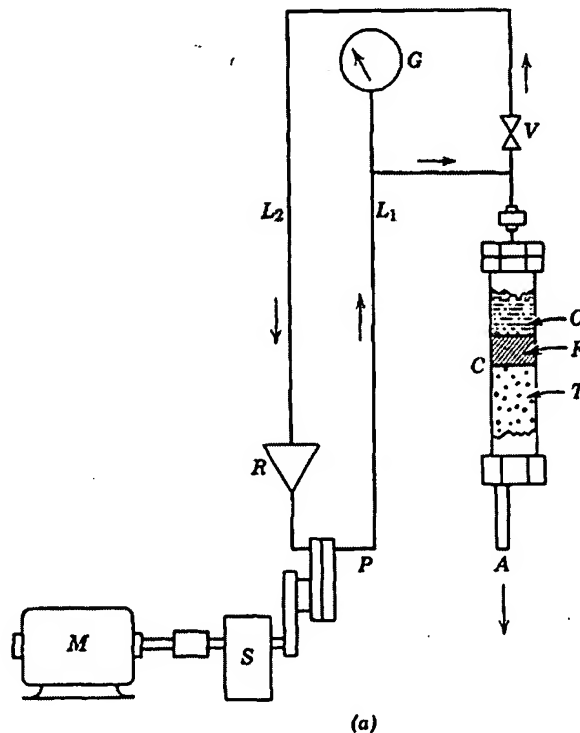
Allowable Subject Matter

6. Claims 1-30 and 45-60 are allowed over the Prior Art of record.

7. The following is an examiner's statement of reasons for allowance: The primary reasons for allowance of the independent claims 1, 12 and 22 is the inclusion of the limitations of an apparatus and method steps for measuring the viscosity of a sample fluid wherein a floating (buoyant) piston is disposed on a weighted fluid (i.e. more dense than the sample fluid) within a vessel/chamber, the sample fluid separated from the weighted fluid by the piston, a capillary in

Art Unit: 2856

fluid communication with the chamber and forcing or creating a pressure drop across the vessel to force the sample fluid through. As to claim 45, the principle is the same as in claims 1, 12 and 22, however, the floating piston limitation is not recited, however the limitation of maintaining the mass transfer between the weighted fluid and the sample fluid is no more than three percent during the determination of the viscosity of the sample fluid. The closest Prior Art reference is "*Viscosity and Flow Measurement* ppg. 237-244" by Van Wazer et al. which discloses an apparatus and method for measuring the viscosity of a sample fluid (see Figs. Below) having a floating piston (F) within a vessel/chamber (C), however, the piston is floating (i.e. buoyant) within the sample fluid, not on the weighted fluid (O), as claimed in the instant invention.





Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John Fitzgerald whose telephone number is (571) 272-2843. The examiner can normally be reached on Monday-Friday from 7:00 AM to 3:30 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hezron Williams, can be reached on (571) 272-2208. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. Information regarding the status of an


Art Unit: 2856

application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



JF

01/24/2005



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